

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: February 13, 2002, 10:08:22 : Search time 23.86 Seconds

(without alignments)
58.985 Million cell updates/sec

Title: US-09-486-094-12

Perfect score: 51

Sequence: 1 CXXXXXXCXXXXCXXCX 19

Scoring table:

BLOSUM62
Gap 10.0, Gapext 0.5

Searched: 522463 seqs, 74073290 residues

Total number of hits satisfying chosen parameters: 522463

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

A_Geneseq_1101.*
1: /SID58/gcgdata/geneseq/geneseq/AA1980.DAT.*
2: /SID58/gcgdata/geneseq/geneseq/AA1981.DAT.*
3: /SID58/gcgdata/geneseq/geneseq/AA1982.DAT.*
4: /SID58/gcgdata/geneseq/geneseq/AA1983.DAT.*
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12: /SID58/gcgdata/geneseq/geneseq/AA1991.DAT.*
13: /SID58/gcgdata/geneseq/geneseq/AA1992.DAT.*
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20: /SID58/gcgdata/geneseq/geneseq/AA1999.DAT.*
21: /SID58/gcgdata/geneseq/geneseq/AA2000.DAT.*
22: /SID58/gcgdata/geneseq/geneseq/AA2001.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Query	ID	Description
1	30	58.8	81	20	AAV48268 Human prostate can
2	30	58.8	1081	20	AAV24319 Mouse dephosphoryl
3	29	56.9	24	22	AAV92218 Toxin peptide SEQ
4	29	56.9	233	21	AAV74791 Neisseria meningit
5	28	54.9	462	18	AAW05876 Arabidopsis violax
6	28	54.9	473	18	AAW05874 Romanine lettuce vi
7	28	54.9	478	18	AAW09875 Tobacco violaxanth
8	27	52.9	79	21	AAV64946 Human 5' EST relat
9	27	52.9	144	22	AAW25276 Human protein sequ
10	27	52.9	403	22	AAE01547 Human gene 2 encod
11	27	52.9	428	22	AAB88585 Human hydrophobic

12	27	52.9	430	22	AAE01633 Human gene 10 enco
13	27	52.9	741	22	AAB95002 Human protein sequ
14	27	52.9	4544	15	AAR47861 Alpha 2-Macroglobu
15	27	52.9	4544	15	AAR60517 Human alpha-2-MR.
16	26	51.0	29	9	AAP81739 Sequence of novel
17	26	51.0	57	21	AAV57813 Crab metallothione
18	26	51.0	70	20	AAV59982 Human endometrium
19	26	51.0	102	21	AAB41641 Human OREF ORF1405
20	26	51.0	154	13	AAR24082 Truncated TNF-alpha
21	26	51.0	154	21	AAV94711 Tumour necrosis fa
22	26	51.0	158	13	AAR24081 Truncated TNF-alpha
23	26	51.0	159	13	AAR24083 Truncated TNF-alpha
24	26	51.0	161	13	AAV27496 Native 30 kD TNF i
25	26	51.0	161	19	AAW59664 Human soluble tumo
26	26	51.0	161	19	AAW52267 Soluble tumour nec
27	26	51.0	161	20	AAW89233 Tumour necrosis in
28	26	51.0	161	22	AAB37676 Human 30 kDa TNF i
29	26	51.0	166	14	AAR34683 tPA signal peptide
30	26	51.0	169	21	AAB43505 Human cancer assoc
31	26	51.0	197	21	AAV21179 Exo3-8 partial pro
32	26	51.0	199	13	AAR24080 Truncated TNF-alpha
33	26	51.0	211	20	AAW89225 Tumour necrosis fa
34	26	51.0	246	19	AAW53007 Mus musculus I-mfa
35	26	51.0	248	21	AAB18331 Plasmodium falcipa
36	26	51.0	280	22	AAB66979 TNF-R-GBPH fusion
37	26	51.0	309	16	AAR70108 Tumour necrosis fa
38	26	51.0	311	20	AAW89229 Human PRO-C-MG-64
39	26	51.0	336	18	AAW33360 Human EGF-like pro
40	26	51.0	344	22	AAE02778 Human EGF-like pro
41	26	51.0	348	20	AAV08490 Tumour necrosis fa
42	26	51.0	350	20	AAW89228 Tumour Necrosis Fa
43	26	51.0	366	20	AAW89228 Human polypeptide
44	26	51.0	371	11	AAV07449
45	26	51.0	374	22	AAW40934

ALIGNMENTS

RESULT 1

AAV48268 standard; Protein: 81 AA.

ID AAV48268;

NC AAV48268;

XX 08-DEC-1999 (first entry)

XX Human prostate cancer-associated protein 54.

XX Expressed sequence tag; EST; prostate tumor; antitumor; treatment;

XX gene therapy; tissue specificity human.

XX Homo sapiens.

XX DE19811193-A1.

XX 16-SEP-1999.

XX 10-MAR-1998; 98DE-1011193.

XX 10-MAR-1998; 98DE-1011193.

XX (META-) METAGEN GFS GENOMFORSCHUNG MBH.

XX Specht T, Hinzmann B, Schmitt A, Pilarsky C, Dahl E, Rosenthal A;

XX WPI; 1999-519628/44.

XX N-PSDB; AAZ33467.

XX New nucleic acid expressed at high level in prostatic tumor tissue and

XX encoded polypeptides, useful for treating cancer and screening for

XX therapeutic agents

PS Claim 22; 137; 166pp; German.

CC This invention describes novel nucleic acid sequences (A) that are expressed at high level in prostatic tumor tissue and encode gene products or their fragments. The products of the invention have antitumor activity. Polypeptides (I) encoded by (A) are used: (i) for identifying agents for treatment of prostatic cancer and (ii) for therapy of prostate cancer, optionally where expressed by gene therapy methods. (A) is also used to isolate full-length genes (for gene therapy) and for recombinant production of (I), which can be used to raise specific antibodies. (A) are identified by assembly of ESTs (expressed sequence tags) before they are analyzed for expression pattern (tissue specificity). This approach eliminates many of the false results, as regards tissue specificity, associated with known methods that use single (usually short) ESTs. AAY48215-V48303 represent protein fragments encoded by the expressed sequence tags described in the method of the invention.

XX Sequence 81 AA;

Query Match 58.8%; Score 30; DB 20; Length 81;
Best Local Similarity 23.5%; Pred. No. 35;
Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 2 CXXXXXXCXXXXXXC 18
| | | | |
DB 8 CSSSSCSWPTSCWSTC 24

RESULT 2
AAY24319
ID AAY24319 standard; Protein; 1081 AA.
AC AAY24319;
XX
DT 16-SEP-1999 (first entry)
XX
DE Mouse dephosphorylase inhibiting p91-like protein #2.
XX
KW Dephosphorylase inhibiting protein; p91; tyrosine phosphatase SHP-1;
KW SHP-2; inositol-5-phosphate SHP; phosphorylating tyrosine;
KW Immunoreceptor; immunomodulatory agent.
XX
OS Mus sp.
XX
PN JP11169184-A.
XX
PD 29-JUN-1999.
XX
PF 12-DEC-1997; 97JP-0362285.
XX
PR 12-DEC-1997; 97JP-0362285.
XX
PA (UYOK-) UNIV OKAYAMA.
XX
DR WPI; 1999-422622/36.
DR N-PSDB; AAX68976.
XX
PT New peptide - useful for inhibiting dephosphorylase
XX
PS Claim 2; Page 15-17; 30pp; Japanese.
XX
CC The present invention describes new proteins for inhibiting dephosphorylase. The proteins can be combined with tyrosine phosphatase SHP-1, SHP-2 or inositol-5-phosphatase SHP by phosphorylating tyrosine.
CC The present invention also describes an immunoreceptor comprising one of the above proteins, and DNA coding the above proteins. The new proteins can be used as an immunomodulatory agent. The present sequence represents a protein from the present invention.

XX Sequence 1081 AA;

Query Match 58.8%; Score 30; DB 20; Length 1081;
Best Local Similarity 23.5%; Pred. No. 59;
Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 2 CXXXXXXCXXXXXXC 18
| | | | |
DB 197 Cysygaacaggaacagac 213

RESULT 3
AAB92218
ID AAB92218 standard; Peptide; 24 AA.
XX
AC AAB92218;
XX
DT 22-JUN-2001 (first entry)
XX
DE Toxin peptide SEQ ID NO:1394.
XX
KW Protection; endogenous therapeutic peptide; peptidase; conjugation;
KW blood component; modification; succinimidyl; maleimido group; amino;
KW hydroxyl; thiol; hormone; growth factor; neurotransmitter.
XX
OS Homo sapiens.
OS Synthetic.
XX
PN WC200069900-A2.
XX
PD 23-NOV-2000.
XX
PF 17-MAY-2000; 2000WO-US13576.
XX
PR 17-MAY-1999; 99US-0134406.
PR 10-SEP-1999; 99US-0153406.
PR 15-OCT-1999; 99US-0159783.
XX
PA (CONJ-) CONJUCHEM INC.
XX
PI Bridon DP, Ezrin AM, Milner PG, Holmes DL, Thibaudeau K;
XX WPI; 2001-112059/12.
XX
PT Modifying and attaching therapeutic peptides to albumin prevents
PT peptidase degradation, useful for increasing length of in vivo activity
PT
XX
PS Disclosure; Page 652; 733pp; English.
XX
CC The present invention describes a modified therapeutic peptide (I) comprising a therapeutically active amino acid region (III) and a reactive group (II) (e.g. succinimidyl and maleimido groups) attached to a less therapeutically active amino acid region (IV), which covalently bonds with amino/hydroxyl/thiol groups on blood components to form a peptidase stabilised therapeutic peptide composed of 3-50 amino acids. (I) are useful for modifying therapeutic peptides e.g. hormones, growth factors and neurotransmitters, to protect them from peptidase activity in vivo for the treatment of various disorders. Endogenous therapeutic peptides are not suitable as drug candidates as they require frequent administration due to rapid degradation by peptidases in the body. CC Modifying and attaching therapeutic peptides to albumin prevents or CC reduces the action of peptidases to increase length of activity (half CC life) and specificity as bonding to large molecules decreases CC intracellular uptake and interference with physiological processes. CC AAB90829 to AAB92441 represent peptides which can be used in the CC exemplification of the present invention.
XX
SQ Sequence 24 AA;

Query Match 56.9%; Score 29; DB 22; Length 24;
Best Local Similarity 23.5%; Pred. No. 42;
Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

```

Qy      2 CXXXXXXCXXXXXXC 18
Db      1 ckgsscstsynccrsc 17

RESULT 4
AAV74791
ID      AAV74791 standard; Protein; 233 AA.
XX
AC      AAV74791;
XX
DT      21-MAR-2000 (first entry)
XX
DE      Neisseria meningitidis ORF 263 protein sequence SEQ ID NO:1056.
XX
KW      Neisseria meningitidis; Neisseria gonorrhoeae; antigen; vaccine;
KW      antigenic; diagnosis; immunogenic; infection; meningitis; septicemia;
KW      antibacterial; gene therapy.
XX
OS      Neisseria meningitidis.
XX
PN      WO957280-A2.
XX
PD      11-NOV-1999.
XX
PF      30-APR-1999; 99WO-US03346.
XX
PR      01-MAY-1998; 98US-0083758.
PR      31-JUL-1998; 98US-0094869.
PR      02-SEP-1998; 98US-0098994.
PR      09-OCT-1998; 98US-0099062.
PR      09-OCT-1998; 98US-0103749.
PR      09-OCT-1998; 98US-0103794.
PR      09-OCT-1998; 98US-0103796.
PR      25-FEB-1999; 99US-0121528.
XX
(PA      (CHIR ) CHIRON CORP.
PA      (GENO-) INST GENOMIC RES.
XX
-PI      Fraser C, Galeotti C, Grandi G, Hickey E, Masignani V, Mora M;
PI      Petersen J, Pizza M, Rappuoli R, Ratti G, Scalato E, Scarselli M;
PI      Tettelin H, Venter JC;
XX
DR      WPI: 2000-062150/05.
DR      N-PSDB: AA253553.
XX
Novel Neisserial polypeptides predicted to be useful antigens for
PT      vaccines and diagnostics -
XX
PS      Claim 2; Page 606; 1453pp; English.
XX
CC      AA253015 to AA254536, AA254577 to AA254615, and AAV74253 to AAV75941
CC      represent novel Neisseria meningitis and N. gonorrhoea polynucleotides
CC      and polypeptides. AA254537 to AA254576 and AA254616 to AA25473 represent
CC      PCR primers used in the exemplification of the present invention. The
CC      polypeptides, the polynucleotides, antibodies and compositions of
CC      the invention can be used as vaccines, as diagnostic reagents, and as
CC      immunogenic compositions. The polypeptides can be used in the
CC      manufacture of medicaments for treating or preventing infection due to
CC      Neisserial bacteria (e.g. meningitis and septicemia), to detect the
CC      presence of Neisseria bacteria, or to raise antibodies. They may also
CC      be used to screen for agonists or antagonists, which may themselves
CC      have use as antibacterial agents. The polynucleotides of the invention
CC      may also be used in gene therapy protocols.
XX
SQ      Sequence 233 AA;

Query Match 56.9%; Score 29; DB 21; Length 233;
Best Local Similarity 23.5%; Pred. No. 67;
Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy      2 CXXXXXXCXXXXXXC 18
Db      173 caactacgtcaacaacc 189

RESULT 5
AAW09876
ID      AAW09876 standard; Protein; 462 AA.
XX
AC      AAW09876;
XX
DT      28-JUL-1997 (first entry)
XX
DE      Arabidopsis violaxanthin de-epoxidase.
XX
KW      Violaxanthin de-epoxidase; VDE; light; photosensitivity;
KW      photoprotection; transgenic plant; zeaxanthin; antheraxanthin;
KW      xanthophyll.
XX
OS      Arabidopsis thaliana var. columbia.
XX
FH      Key Location/Qualifiers
FT      Peptide 1..113
FT      /label= Transit_peptide
FT      Protein 114..462
FT      /label= Mat_protein
FT      Peptide 114..126
FT      /note= "Claim 8"
FT      Domain 114..185
FT      /label= Cys-rich_domain
FT      Domain 364..462
FT      /label= Highly-charged_domain
FT      Misc-difference 120
FT      /note= "conserved Cys residue"
FT      Misc-difference 122
FT      /note= "conserved Cys residue"
FT      Misc-difference 127
FT      /note= "conserved Cys residue"
FT      Misc-difference 134
FT      /note= "conserved Cys residue"
FT      Misc-difference 140
FT      /note= "conserved Cys residue"
FT      Misc-difference 146
FT      /note= "conserved Cys residue"
FT      Misc-difference 150
FT      /note= "conserved Cys residue"
FT      Misc-difference 159
FT      /note= "conserved Cys residue"
FT      Misc-difference 163
FT      /note= "conserved Cys residue"
FT      Misc-difference 178
FT      /note= "conserved Cys residue"
FT      Misc-difference 185
FT      /note= "conserved Cys residue"
FT      Misc-difference 231
FT      /note= "conserved Cys residue"
FT      Misc-difference 362
FT      /note= "conserved Cys residue"
XX
WO9717447-A2.
XX
PN      15-MAY-1997.
XX
PD      07-NOV-1996; 96WO-US18291.
XX
PR      06-AUG-1996; 96US-0023502.
PR      07-NOV-1995; 95US-0006315.
XX
(PA      (CALJ ) CALGENE INC.
XX
PI      Bugos RC, Rockholm DC, Yamamoto HY;
XX
DR      WPI; 1997-281036/25.

```

DR N-PSDB; AAT66243.
 XX DNA encoding plant violaxanthin de-epoxidase - used to modify the
 PT sensitivity of a plant to light
 XX
 PS Disclosure; Fig 3; 4lpp; English.
 XX
 CC The violaxanthin de-epoxidase (VDE) (AAW09876) of Arabidopsis
 CC catalyses the de-epoxidation of violaxanthin to zeaxanthin and
 CC antheraxanthin. This system, termed energy dependent non-radiative
 CC energy dissipation or non-photochemical fluorescence quenching,
 CC reduces the quantum efficiency of photosystem II (PSII), helping to
 CC prevent PSII over-reduction and photoinhibitory damage. The amino
 CC acid sequence of the VDE was deduced from an isolated cDNA clone
 CC (AAT66243). VDE nucleic acids (see also AAT66241-42), in sense or
 CC antisense orientation, can be used in genetic constructs to modify
 CC VDE levels in plants. Increased levels result in the plant being
 CC tolerant of increased light and therefore more productive and/or
 CC more resistant to disease. Underexpression of VDE increases
 CC photosynthetic efficiency under low light. The photosensitivity of
 CC a range of crops, trees and ornamentals can be modified.
 XX
 SQ Sequence 462 AA;

Query Match 54.9%; Score 28; DB 18; Length 462;
 Best Local Similarity 23.5%; Pred. No. 1.2e+02;
 Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 2 CXXXXXXCXXXXXXC 18
 Db 134 cianpacaanvaciqtc 150

RESULT 6

RAW09874
 ID AAW09874 standard; Protein; 473 AA.

AC AAW09874;

XX 28-JUL-1997 (first entry)

XX Romaine lettuce violaxanthin de-epoxidase.

XX Violaxanthin de-epoxidase; VDE; light; photosensitivity;
 KW photoprotection; transgenic plant; zeaxanthin; antheraxanthin;
 KW xanthophyll; lettuce.

OS Lactuca sativa L. cv. romaine.

XX Key Location/Qualifiers
 FH Peptide 1..125
 FT /label= Transit_peptide
 FT Protein 126..473
 FT /label= Mat_protein
 FT Peptide 126..138
 FT /note= "Claim 8"
 FT Domain 126..197
 FT /label= Cys-rich_domain
 FT Peptide 218..231
 FT /label= Lipocalin_signature
 FT Domain 376..473
 FT /label= Highly-charged_domain
 FT Peptide 265..272
 FT /label= Tryptic_peptide-11
 FT Peptide 275..289
 FT /label= Tryptic_peptide-21
 FT Peptide 341..353
 FT /label= Tryptic_peptide-15
 FT Misc-difference 132
 FT /note= "conserved Cys residue"
 FT Misc-difference 134
 FT /note= "conserved Cys residue"

FT Misc-difference 139
 FT /note= "conserved Cys residue"
 FT Misc-difference 146
 FT /note= "conserved Cys residue"
 FT Misc-difference 152
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 FT Misc-difference 158
 FT /note= "conserved Cys residue"
 FT Misc-difference 162
 FT /note= "conserved Cys residue"
 FT Misc-difference 171
 FT /note= "conserved Cys residue"
 FT Misc-difference 175
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 FT Misc-difference 190
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 FT Misc-difference 197
 FT /note= "conserved Cys residue"
 FT Misc-difference 243
 FT /note= "conserved Cys residue"
 FT Misc-difference 373
 FT /note= "conserved Cys residue"
 XX

W09717447-A2.

XX 15-MAY-1997.

XX 07-NOV-1996; 96WO-US18291.

PR 06-AUG-1996; 96US-0023502.

PR 07-NOV-1995; 95US-0006315.

XX (CALJ) CALGENE INC.

XX Bugos RC, Rockholm DC, Yamamoto HY;

XX WPI; 1997-281036/25.

DR N-PSDB; AAT66241.

XX DNA encoding plant violaxanthin de-epoxidase - used to modify the
 PT sensitivity of a plant to light

XX Example 1; Fig 1; 4lpp; English.

XX The 55 kDa violaxanthin de-epoxidase (VDE) (AAW09874) of romaine
 CC lettuce catalyses the de-epoxidation of violaxanthin to zeaxanthin
 CC and antheraxanthin. This system, termed energy dependent
 CC non-radiative energy dissipation or non-photochemical fluorescence
 CC quenching, reduces the quantum efficiency of photosystem II (PSII)
 CC helping to prevent PSII over-reduction and photoinhibitory damage.
 CC The amino acid sequence of the VDE was deduced from an isolated
 CC cDNA clone (AAT66241). VDE nucleic acids (see also AAT66242-43), in
 CC sense or antisense orientation, can be used in genetic constructs
 CC to modify VDE levels in plants. Increased levels result in the
 CC plant being tolerant of increased light and therefore more
 CC productive and/or more resistant to disease. Underexpression of
 CC VDE increases photosynthetic efficiency under low light. The
 CC photosensitivity of a range of crops, trees and ornamentals can be
 CC modified.

XX Sequence 473 AA;

Query Match 54.9%; Score 28; DB 18; Length 473;
 Best Local Similarity 23.5%; Pred. No. 1.2e+02;
 Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 2 CXXXXXXCXXXXXXC 18

Db 146 cianpacaanvaciqtc 162

RESULT 7

AAW09875
 ID AAW09875 standard; Protein; 478 AA.
 AC AAW09875;
 DT 28-JUL-1997 (first entry)
 DE Tobacco violaxanthin de-epoxidase.
 XX
 KW Violaxanthin de-epoxidase; VDE; light; photosensitivity;
 KW photoprotection; transgenic plant; zeaxanthin; antheraxanthin;
 KW xanthophyll; tobacco.
 XX
 OS Nicotiana tabacum cv. xanthi.
 XX
 FH Key Location/Qualifiers
 FT Peptide 1..134
 FT /label= Transit_peptide
 FT Protein 135..478
 FT /label= Mat_protein
 FT Peptide 135..147
 FT /note= "Claim 8"
 FT Domain 135..206
 FT /label= Cys-rich_domain
 FT Domain 385..478
 FT /label= Highly-charged_domain
 FT Misc-difference 141
 FT /note= "conserved Cys residue"
 FT Misc-difference 143
 FT /note= "conserved Cys residue"
 FT Misc-difference 148
 FT /note= "conserved Cys residue"
 FT Misc-difference 155
 FT /note= "conserved Cys residue"
 FT Misc-difference 161
 FT /note= "conserved Cys residue"
 FT Misc-difference 167
 FT /note= "conserved Cys residue"
 FT Misc-difference 171
 FT /note= "conserved Cys residue"
 FT Misc-difference 180
 FT /note= "conserved Cys residue"
 FT Misc-difference 184
 FT /note= "conserved Cys residue"
 FT Misc-difference 190
 FT /note= "conserved Cys residue"
 FT Misc-difference 206
 FT /note= "conserved Cys residue"
 FT Misc-difference 252
 FT /note= "conserved Cys residue"
 FT Misc-difference 382
 FT /note= "conserved Cys residue"
 XX
 WO9717447-A2.
 XX
 PD 15-MAY-1997.
 XX
 PD 07-NOV-1996; 96WO-US18291.
 PF
 XX
 PR 06-AUG-1996; 96US-0023502.
 PR 07-NOV-1995; 95US-0006315.
 XX
 (CALJ) CALGENE INC.
 PA
 XX
 PI Bugos RC, Rockholm DC, Yamamoto HY;
 XX
 DR WPI; 1997-281036/25.
 DR N-PSDB; AAT66242.
 XX
 XX DNA encoding plant violaxanthin de-epoxidase - used to modify the
 PT sensitivity of a plant to light
 XX
 PS Disclosure; Fig 2; 41pp; English.

XX The 55 kDa violaxanthin de-epoxidase (VDE) (AAW09875) of tobacco
 CC catalyses the de-epoxidation of violaxanthin to zeaxanthin and
 CC antheraxanthin. This system, termed energy dependent non-radiative
 CC energy dissipation or non-photochemical fluorescence quenching,
 CC reduces the quantum efficiency of photosystem II (PSII), helping to
 CC prevent PSII over-reduction and photoinhibitory damage. The amino
 CC acid sequence of the VDE was deduced from an isolated cDNA clone
 CC (AAT66242). VDE nucleic acids (see also AAT66241, AAT66243), in sense
 CC or antisense orientation, can be used in genetic constructs to
 CC modify VDE levels in plants. Increased levels result in the plant
 CC being tolerant of increased light and therefore more productive
 CC and/or more resistant to disease. Underexpression of VDE increases
 CC photosynthetic efficiency under low light. The photosensitivity of
 CC a range of crops, trees and ornamentals can be modified.
 XX
 SQ Sequence 478 AA;
 Query Match 54.9%; Score 28; DB 18; Length 478;
 Best Local Similarity 23.5%; Pred. No. 1.2e+02;
 Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
 Qy 2 CXXXXXCXXXXXCXXC 18
 Db 155 cisnpacaanvaclqtc 171
 RESULT 8
 AAY64946
 ID AAY64946 standard; Protein; 79 AA.
 XX
 AC AAY64946;
 XX
 DT 01-FEB-2000 (first entry)
 XX
 DE Human 5' EST related polypeptide SEQ ID NO:1107.
 XX
 KW Human; 5' EST; expressed sequence tag; secreted protein; diagnosis;
 KW gene therapy; chromosome mapping; upstream regulatory sequence;
 KW forensic; location; development; protein synthesis; stability;
 KW regulation; identification.
 XX
 OS Homo sapiens.
 XX
 PN WO953051-A2.
 XX
 PD 21-OCT-1999.
 XX
 PF 09-APR-1999; 99WO-IB00712.
 XX
 PR 09-APR-1998; 98US-0057719.
 PR 28-APR-1998; 98US-0069047.
 XX
 PA (GEST) GENSET.
 XX
 PI Dumas Milne Edwards J, Duclert A, Giordano J;
 XX
 DR WPI; 2000-038446/03.
 DR N-PSDB; AA242560.
 XX
 FT Novel secreted protein 5' expressed sequence tag sequences used in
 FT diagnostic, forensic, gene therapy, and chromosome mapping procedures
 XX
 PS Claim 3; Page 688; 837pp; English.
 XX
 CC AA242265 to AA243075 represent novel 5' expressed sequence tag (EST)
 CC sequences, corresponding to human secreted proteins. AAY64651 to
 CC AAY65438 represent the EST-related proteins corresponding to AA242265 to
 CC AA243052. The 5' ESTs can be used for producing secreted human gene
 CC products. They can be used to identify and isolate 5' untranslated
 CC regions (UTRs) and upstream regulatory regions which control the
 CC location, development stage, rate, and quantity of protein synthesis, as

CC well as stability of mRNA. The ESTs are also useful as probes for
 CC chromosome mapping, and to obtain full length cDNA clones. The ESTs can
 CC also be used in forensic procedures to identify individuals, or in
 CC diagnostic procedures to identify individuals having genetic diseases
 CC resulting from abnormal gene expression. The products may also be used in
 CC gene therapy protocols. The nucleic acids encoding signal peptides can be
 CC used for directing extracellular secretion of a polypeptide or the
 CC insertion of a polypeptide into a membrane, or importing a polypeptide
 CC into a cell. The proteins encoded by the EST sequences may be useful in
 CC treating a variety of human conditions. Secreted proteins have
 CC therapeutic value, and the identification of new secreted proteins is
 CC valuable. AA242249 to AA242264 and AAY64644 to AAY64650 represent
 CC sequences used in the exemplification of the present invention.

XX Sequence 79 AA;

Query Match 52.9%; Score 27; DB 21; Length 79;

Best Local Similarity 29.4%; Pred. No. 1.3e+02;

Matches 5; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 2 CXXXXXXCXXXXXXC 18

DB 10 cvyavcvasvacyxc 26

RESULT 9

AA25276

ID AAM25276 standard; Protein; 144 AA.

AC AAM25276;

DT 16-OCT-2001 (first entry)

DE Human protein sequence SEQ ID NO:791.

XX Human; cancer; ulcer; HIV infection; human immunodeficiency virus;
 KW antiinflammatory; antirheumatic; antiarthritic; immunosuppressive;
 KW antibacterial; endocrine; cardiant; central nervous system; virucide;
 KW anti-HIV; fungicide; antitumagen; cardiovascular; antianaemic; anaemia;
 KW antiaggregant; haemostatic; vulnery; antilucer; osteopathic; eczema;
 KW dermatological; antiallergic; antidiabetic; antiparkinsonian; infection;
 KW neuroprotective; antidepressant; nootropic; antiparkinsonian; infection;
 KW immunostimulant; gene therapy; antisense therapy; vaccine; inflammation;
 KW antianaphylactic; rheumatoid arthritis; septic shock; pancreatitis;
 KW cardiac dysfunction; neuropathology; cardiac anaphylaxis; autoimmunity;
 KW genetic disease; haematopoietic disorder; platelet disorder; asthma;
 KW thrombocytopaenia; osteoporosis; severe combined immunodeficiency;
 KW allergic rhinitis; diabetes; multiple sclerosis; depression;
 KW Alzheimer's disease; Parkinson's disease; neurodegenerative disorder;
 KW neurological disorder.

XX Homo sapiens.

XX WO200153455-A2.

XX 26-JUL-2001.

XX 22-DEC-2000; 2000WO-US35017.

XX 23-DEC-1999; 99US-0471275.

XX 21-JAN-2000; 2000US-0488725.

XX 25-APR-2000; 2000US-0552317.

XX (HYSE-) HYSEQ INC.

XX Tang YT, Liu C, Drmanac RT;

XX WPI; 2001-457603/49.

XX N-PSDB; AAH99217.

XX Isolated human polynucleotides encoding polypeptides, useful for the

PT treatment and diagnosis of e.g. cancer, ulcers and HIV infection.

XX

PS Claim 20; Page 185; 1217pp; English.

XX

CC AAH99166 to AAH99904 encode the human proteins given in AAM25225 to
 CC AAM25963. The proteins can have activities based on the tissues and
 CC cells they are expressed in, such as: antiinflammatory; antirheumatic;
 CC antarthritic; immunosuppressive; antibacterial; endocrine; cardiant;
 CC central nervous system; virucide; anti-HIV; fungicide; antitumagen;
 CC cardiovascular; antianaemic; antiaggregant; haemostatic; vulnery;
 CC antilucer; osteopathic; dermatological; antiallergic; antidiabetic;
 CC antidiabetic; cytostatic; neuroprotective; antidepressant; nootropic;
 CC antiparkinsonian; and immunostimulant. The proteins and polynucleotides
 CC encoding them can be used in gene therapy, antisense therapy and vaccine
 CC production. The proteins and polynucleotides are useful for screening for
 CC agonists or antagonists of a protein and for the treatment and diagnosis
 CC of disorders associated with the activity of a protein e.g. inflammation,
 CC rheumatoid arthritis, septic shock, pancreatitis, cardiac dysfunction,
 CC neuropathology, cardiac anaphylaxis, viral, bacterial, HIV and fungal
 CC infections, autoimmunity, genetic diseases, haematopoietic disorders,
 CC anaemia, platelet disorders, thrombocytopaenia, wounds, burns, ulcers,
 CC osteoporosis, severe combined immunodeficiency, eczema, allergic
 CC rhinitis, asthma, diabetes, cancer, multiple sclerosis, depression,
 CC Alzheimer's disease, Parkinson's disease, neurodegenerative and
 CC neurological disorders.

XX Sequence 144 AA;

Query Match 52.9%; Score 27; DB 22; Length 144;

Best Local Similarity 23.5%; Pred. No. 1.4e+02;

Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 2 CXXXXXXCXXXXXXC 18

DB 24 cgsikdcasdrccetsc 40

RESULT 10

AAE01547

ID AAE01547 standard; Protein; 403 AA.

XX AAE01547;

AC AAE01547;

XX 17-JUL-2001 (first entry)

DE Human gene 2 encoded secreted protein HMWDF54, SEQ ID NO:97.

XX Human; secreted protein; proliferative disorder; cancer; tumour;
 KW foetal abnormality; developmental abnormality; haematopoietic disorder;
 KW immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;
 KW inflammation; allergy; neurological disorder; Alzheimer's disease;
 KW Parkinson's disease; sepsis; diabetes; schizophrenia; asthma;
 KW skin disorder; psoriasis; sepsis; diabetes; atherosclerosis;
 KW cardiovascular disorder; angiotensin disorder; kidney disorder;
 KW gastrointestinal disorder; pregnancy-related disorder;
 KW endocrine disorder; infection; wound healing; vulnery;
 KW cell culture; chemotaxis; food additive; gene therapy;
 KW binding partner identification; chromosome 1.

XX Homo sapiens.

XX Key Location/Qualifiers

XX Peptide 1..31

XX /label= Signal_peptide

XX Protein 32..403

XX /label= Mature_human_secreted_protein

XX WO200134623-A1.

XX 17-MAY-2001.

XX 01-NOV-2000; 2000WO-US30037.

PR 05-NOV-1999; 99US-0163577.
 PR 30-JUN-2000; 2000US-0215137.
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX Ruben SM, Komatsoulis GA, Moore PA;
 PI WPI; 2001-316490/33.
 DR N-PSDB; AAE05390.
 XX
 DR Nucleic acids encoding 29 human secreted polypeptides, useful for
 PT preventing, diagnosing and/or treating e.g. cancers, Parkinson's
 PT disease and diabetic retinopathy -
 XX Claim 11; Page 477-479; 535pp; English.
 XX AAD05389-AAD05473 represent cDNAs corresponding to 29 human secreted
 CC protein genes, and AAE01546-AAE01630 represent the proteins they encode.
 CC AAE01631-AAE01660 represent human secreted protein fragments or variants.
 CC The secreted proteins and their genes are useful for preventing,
 CC treating or ameliorating medical conditions, e.g., by protein or gene
 CC therapy. Pathological conditions can be diagnosed by determining the
 CC amount of the new protein in a sample or by determining the presence of
 CC mutations in the new genes. Specific uses are described for each of the
 CC 29 genes, based on the tissues in which they are most highly expressed,
 CC and include developing products for the diagnosis or treatment of
 CC proliferative disorders, cancer, tumours, foetal and developmental
 CC abnormalities, haematopoietic disorders, diseases of the immune system,
 CC AIDS, autoimmune diseases (e.g., rheumatoid arthritis), inflammation,
 CC allergies, neurological disorders (e.g., Alzheimer's disease,
 CC Parkinson's disease), cognitive disorders, schizophrenia, asthma,
 CC skin disorders (e.g., psoriasis), sepsis, diabetes, atherosclerosis,
 CC cardiovascular disorders, angiogenic disorders, kidney disorders,
 CC gastrointestinal disorders, pregnancy-related disorders, endocrine
 CC disorders, and infections. The proteins can also be used to aid wound
 CC healing and epithelial cell proliferation, to prevent skin aging due to
 CC sunburn, to maintain organs before transplantation, for supporting cell
 CC culture of primary tissues, to regenerate tissues, to identify their
 CC cognate ligands or binding partners, and in chemotaxis, and can be used
 CC as a food additive or preservative to modify storage properties.
 CC Antibodies specific for a protein of the invention can be used in
 CC alleviating symptoms associated with the disorders mentioned above, and
 CC in diagnostic immunoassays e.g., radioimmunoassay or enzyme linked
 CC immunosorbent assay (ELISA). The present sequence represents a human
 CC secreted protein of the invention.
 XX Sequence 403 AA;
 SQ

Query Match 52.9%; Score 27; DB 22; Length 403;
 Best Local Similarity 23.5%; Pred. No. 1.8e+02;
 Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 2 CXXXXXXCXXXXXXC 18
 | | | | |
 Db 306 cesdlcdvgytdrtsc 322

RESULT 11
 AAB88585
 ID AAB88585 standard; Protein; 428 AA.
 XX
 AC AAB88585;
 XX
 DT 04-JUN-2001 (first entry)
 XX
 DE Human hydrophobic domain containing protein clone HP10730 #69.
 XX
 KW Human; hydrophobic domain; immunosuppressant; anti-HIV; neuroprotective;
 KW antianemic; vulnary; antiulcer; osteopathic; anti-inflammatory;
 KW cytostatic; gene therapy; autoimmune disorder; multiple sclerosis;
 KW HIV infection; anaemia; burn; ulcer; osteoporosis; tumour; wound healing;
 KW inflammatory bowel disease; nutritional supplement; appetite; vaccine;

KW behavioural characteristic; immune response.
 XX Homo sapiens.
 XX WO200112660-A2.
 XX 22-FEB-2001.
 XX
 PF 10-AUG-2000; 2000WO-JP053356.
 XX
 XX 17-AUG-1999; 99JP-0230344.
 PR 07-SEP-1999; 99JP-0252551.
 PR 01-OCT-1999; 99JP-0281132.
 PR 22-OCT-1999; 99JP-0301624.
 PR 04-NOV-1999; 99JP-0313877.
 XX
 PA (SAGA) SAGAMI CHEM RES CENT.
 PA (PROT-) PROTEGENE INC.
 XX
 PI Kato S, Kimura T;
 DR WPI; 2001-160059/16.
 DR N-PSDB; AAE94465.
 XX
 PT Human proteins with hydrophobic domains and the DNAs which encode them
 PT are useful for treating autoimmune disorders, burns and tumors and for
 PT screening novel pharmaceuticals -
 XX Claim 1; Page 361-363; 518pp; English.
 XX AAF94417 to AAF94516 encode the human proteins given in AAB88557 to
 CC AAB88606 (I) which have a hydrophobic domain. (I) have immunosuppressant,
 CC anti-HIV, neuroprotective, antianemic, vulnary, antiulcer,
 CC osteopathic, anti-inflammatory and cytostatic activities, and can be
 CC used in gene therapy. (I) can be used as pharmaceuticals and as antigens
 CC to prepare antibodies. DNA and cDNA (II) encoding (I) can be used as
 CC probes for genetic diagnosis and gene sources for gene therapy or for
 CC producing (I) in large quantities. Cells containing (II) are used for
 CC the detection of ligands or receptors corresponding to membrane or
 CC secretory proteins and to screen small molecule novel pharmaceuticals.
 CC Antibodies directed to (I) can be used for the detection, quantification
 CC and purification of (I). Activities of (I) may include cytokine and cell
 CC proliferation/differentiation function, immune stimulating or suppressing
 CC activity, haematopoiesis regulating activity, tissue growth activity,
 CC activity/inhibit activity, chemotactic/chemokinetic activity, haemostatic
 CC and thrombolytic activity, receptor/ligand activity and anti-inflammatory
 CC activity. (I) and (II) can be used to treat autoimmune disorders e.g.
 CC multiple sclerosis, HIV infections, anaemia, burns, ulcers, osteoporosis,
 CC inflammatory bowel disease and tumours. (I) and (II) can also be used for
 CC wound healing, as nutritional sources or supplements e.g. as amino acid,
 CC carbon or nitrogen source, to effect metabolism, catabolism, anabolism,
 CC processing and utilisation of dietary fat, protein, carbohydrate,
 CC vitamins and minerals, to effect behavioural characteristics, to affect
 CC appetite, and can act as antigens in vaccines to raise an immune response
 CC to the protein or another material cross-reactive with the protein.
 XX Sequence 428 AA;
 SQ

Query Match 52.9%; Score 27; DB 22; Length 428;
 Best Local Similarity 23.5%; Pred. No. 1.8e+02;
 Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 2 CXXXXXXCXXXXXXC 18
 | | | | |
 Db 331 cesdlcdvgytdrtsc 347

RESULT 12
 AAE01633
 ID AAE01633 standard; Protein; 430 AA.
 XX
 AC AAE01633;

XX 17-JUL-2001 (first entry)
 XX Human gene 10 encoded secreted protein fragment, SEQ ID NO:183.
 XX
 XX Human; secreted protein; proliferative disorder; cancer; tumour;
 KW foetal abnormality; developmental abnormality; haematopoietic disorder;
 KW immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;
 KW inflammation; allergy; neurological disorder; Alzheimer's disease;
 KW Parkinson's disease; cognitive disorder; schizophrenia; asthma;
 KW skin disorder; psoriasis; sepsis; diabetes; atherosclerosis;
 KW cardiovascular disorder; angiogenic disorder; kidney disorder;
 KW gastrointestinal disorder; pregnancy-related disorder;
 KW endocrine disorder; infection; wound healing; vulnery;
 KW cell culture; chemotaxis; food additive; gene therapy;
 KW binding partner identification.
 XX
 XX Homo sapiens.
 XX
 XX WO200134623-A1.
 XX
 XX 17-MAY-2001.
 XX
 XX 01-NOV-2000; 2000WO-US30037.
 XX
 XX 05-NOV-1999; 99US-0163577.
 XX 30-JUN-2000; 2000US-0215137.
 XX (HUMA-) HUMAN GENOME SCI INC.
 XX
 XX Ruben SM, Komatsoulis GA, Moore PA;
 PI WPI; 2001-316450/33.
 XX
 XX Nucleic acids encoding 29 human secreted polypeptides, useful for
 PT preventing, diagnosing and/or treating e.g. cancers, Parkinson's
 PT disease and diabetic retinopathy -
 XX
 XX Disclosure; Page 10; 535pp; English.
 XX
 XX AAD05389-AAD05473 represent cDNAs corresponding to 29 human secreted
 CC protein genes, and AAE01546-AAE01630 represent the proteins they encode.
 CC AAE01631-AAE01660 represent human secreted protein fragments or variants.
 CC The secreted proteins and their genes are useful for preventing,
 CC treating or ameliorating medical conditions, e.g., by protein or gene
 CC amount of the new protein in a sample or by determining the presence of
 CC mutations in the new genes. Specific uses are described for each of the
 CC 29 genes, based on the tissues in which they are most highly expressed,
 CC and include developing products for the diagnosis or treatment of
 CC proliferative disorders, cancer, tumours, foetal and developmental
 CC abnormalities, haematopoietic disorders, diseases of the immune system,
 CC AIDS, autoimmune diseases (e.g., rheumatoid arthritis), inflammation,
 CC allergies, neurological disorders (e.g., Alzheimer's disease,
 CC Parkinson's disease), cognitive disorders, schizophrenia, asthma,
 CC skin disorders (e.g., psoriasis), sepsis, diabetes, atherosclerosis,
 CC cardiovascular disorders, angio-genic disorders, kidney disorders,
 CC gastrointestinal disorders, pregnancy-related disorders, endocrine
 CC disorders, and infections. The proteins can also be used to aid wound
 CC healing and epithelial cell proliferation, to prevent skin aging due to
 CC sunburn, to maintain organs before transplantation, for supporting cell
 CC culture of primary tissues, to regenerate tissues, to identify their
 CC cognate ligands or binding partners, and in chemotaxis and can be used
 CC as a food additive or preservative to modify storage properties.
 CC Antibodies specific for a protein of the invention can be used in
 CC alleviating symptoms associated with the disorders mentioned above, and
 CC in diagnostic immunoassays e.g., radioimmunoassay or enzyme linked
 CC immunosorbent assay (ELISA). The present sequence represents a human
 CC secreted protein fragment referred to in the disclosure of the invention.
 XX
 XX Sequence 430 AA;

Query Match 52.9%; Score 27; DB 22; Length 430;
 Best Local Similarity 23.5%; Pred. No. 1.8e+02;
 Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
 Qy 2 CXXXXXXCXXXXXXC 18
 Db 333 cesldcvcygtcrtsc 349
 RESULT 13
 AAB95002
 ID AAB95002 standard; Protein; 741 AA.
 AC AAB95002;
 XX
 DT 26-JUN-2001 (first entry)
 XX
 DE Human protein sequence SEQ ID NO:16644.
 XX
 KW Human; primer; detection; diagnosis; antisense therapy; gene therapy.
 XX
 OS Homo sapiens.
 XX
 PN EP1074617-A2.
 XX
 PD 07-FEB-2001.
 XX
 XX 28-JUL-2000; 2000EP-0116126.
 XX
 XX 29-JUL-1999; 99JP-0248036.
 XX 27-AUG-1999; 99JP-0300253.
 XX 11-JAN-2000; 2000JP-0118776.
 XX 02-MAY-2000; 2000JP-0183767.
 XX 09-JUN-2000; 2000JP-0241899.
 XX
 XX (HELI-) HELIX RES INST.
 XX
 XX Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
 PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
 DR WPI; 2001-318749/34.
 XX
 XX Primer sets for synthesizing polynucleotides, particularly the 5602
 PT full-length cDNAs defined in the specification, and for the detection
 PT and/or diagnosis of the abnormality of the proteins encoded by the
 PT full-length cDNAs -
 XX
 PS Claim 8; SEQ ID 16644; 2537pp + CD ROM; English.
 XX
 XX The present invention describes primer sets for synthesising 5602
 CC full-length cDNAs defined in the specification. Where a primer set
 CC comprises: (a) an oligo-dT primer and an oligonucleotide complementary
 CC to the complementary strand of a polynucleotide which comprises one of
 CC the 5602 nucleotide sequences defined in the specification, where the
 CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination
 CC of an oligonucleotide comprising a sequence complementary to the
 CC complementary strand of a polynucleotide which comprises a 5'-end
 CC sequence and an oligonucleotide comprising a sequence complementary to a
 CC polynucleotide which comprises a 3'-end sequence, where the
 CC oligonucleotide comprises at least 15 nucleotides and the combination of
 CC the 5'-end sequence/3'-end sequence is selected from those defined in
 CC the specification. The primer sets can be used in antisense therapy and
 CC in gene therapy. The primers are useful for synthesising polynucleotides,
 CC particularly full-length cDNAs. The primers are also useful for the
 CC detection and/or diagnosis of the abnormality of the proteins encoded by
 CC the full-length cDNAs. The primers allow obtaining of the full-length
 CC cDNAs easily without any specialised methods. AAB03166 to AAB13628 and
 CC AAB13633 to AAB18742 represent human cDNA sequences; AAB24446 to
 CC AAB95893 represent human amino acid sequences; and AAB13629 to AAB13632
 CC represent oligonucleotides, all of which are used in the exemplification
 CC of the present invention.
 XX
 XX Sequence 741 AA;

Query Match 52.9%; Score 27; DB 22; Length 741;
 Best Local Similarity 23.5%; Pred. No. 2e+02;
 Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 2 CXXXXXXCXXXXXXC 18
 | | | | |
 Db 328 cadedcaagncpsbhc 344

RESULT 14

AA47861 ID AAR47861 standard; protein; 4544 AA.

XX AC AAR47861;

XX DT 20-JUL-1994 (first entry)

XX DE Alpha 2-Macroglobulin/LDL-receptor related protein.

XX KW alpha-2 macroglobulin; Low Density Lipoprotein; LDL; receptor family;
 KW LDL receptor related protein; LRP; small rhinovirus receptor; deriv;
 KW minor Rhinovirus; alpha2MR/LRP.

XX OS Homo sapiens.

XX PH Key Location/Qualifiers

XX FT Misc-difference 211..260 /note= "50 residues not shown in SEQ.ID.No.4"

XX FT FT Misc-difference 1990 /note= "Residue not shown in SEQ.ID.No.4"

XX FT FT Misc-difference 3050 /note= "Residue not shown in SEQ.ID.No.4"

XX PN WO9401553-A.

XX PD 20-JAN-1994.

XX PF 05-JUL-1993; 93WO-EP01728.

XX PR 08-JUL-1992; 92DE-422385.

XX PR 22-AUG-1992; 92DE-4227892.

XX PR 19-FEB-1993; 93DE-4305063.

XX PA (BOEH) BOEHRINGER INGELHEIM INT GMBH.

XX PI Blaas D, Gruenberger M, Hofer P, Huettinger M, Kerjaschki D;

XX PI Kowalski H, Kuechler E, Machat H;

XX DR WPI; 1994-035060/04.

XX PT New peptide derivs. of receptor for rhinovirus - of the small
 PT receptor gp., and derived DNA, transformed cells and antibodies,
 PT used e.g. to treat or prevent rhinovirus infection

XX PS Claim 5; Fig 2; 76pp; German.

XX CC Functional derivatives of members of the Minor Rhinovirus Receptor
 CC group are claimed. The alpha-2 Macroglobulin/LDL-receptor related
 CC protein of sequence AAR47861 (Herz et al. EMBO J. 7:4119-4127 (1988))
 CC is a preferred parent receptor. The derivs, which are preferably
 CC soluble, extracellular forms of the native receptors, are useful
 CC for treating and preventing viral (esp. rhinoviral) infections.
 CC N.B. the SEQ.ID. listing includes a sequence (no.4) which differs
 CC from the alpha2-MR/LRP sequence as indicated in the Features Table.

XX SQ Sequence 4544 AA;

Query Match 52.9%; Score 27; DB 15; Length 4544;
 Best Local Similarity 23.5%; Pred. No. 2.9e+02;
 Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 2 CXXXXXXCXXXXXXC 18
 | | | | |
 Db 2980 cadvdecsttfpcsrc 2996

RESULT 15

AA60517 ID AAR60517 standard; Protein; 4544 AA.

XX AC AAR60517;

XX DT 22-MAR-1995 (first entry)

XX DE Human alpha-2-MR.

XX KW Serine protease; Factor-Xa; recognition site;

XX KW fusion protein cleavage; protein folding; alpha-2-MR;

XX KW alpha-2-macroglobulin receptor/low density lipoprotein receptor.

XX OS Homo sapiens.

XX PN WO9418227-A.

XX PD 18-AUG-1994.

XX PF 04-FEB-1994; 94WO-DK00054.

XX PR 04-FEB-1993; 93DK-0000130.

XX PR 05-FEB-1993; 93DK-0000139.

XX PR 03-DEC-1993; 93WO-GB02492.

XX PA (DENZ-) DENZYME APS.

XX PI Etzerodt M, Holtet TL, Thogersen HC;

XX DR WPI; 1994-279681/34.

XX PT Refolding of polypeptide molecules - using a cyclic process
 PT involving denaturing and renaturing conditions to produce a
 PT correctly folded prod

XX PS Disclosure; Page 131-146; 202pp; English.

XX CC Various domains and domain clusters of human alpha-2-MR protein

XX CC have been PCR amplified using the primers given in AAQ71252-65.

XX SQ Sequence 4544 AA;

Query Match 52.9%; Score 27; DB 15; Length 4544;

Best Local Similarity 23.5%; Pred. No. 2.9e+02;

Matches 4; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 2 CXXXXXXCXXXXXXC 18
 | | | | |

Db 2980 cadvdecsttfpcsrc 2996

Search completed: February 13, 2002, 10:10:18
 Job time: 116 sec

